

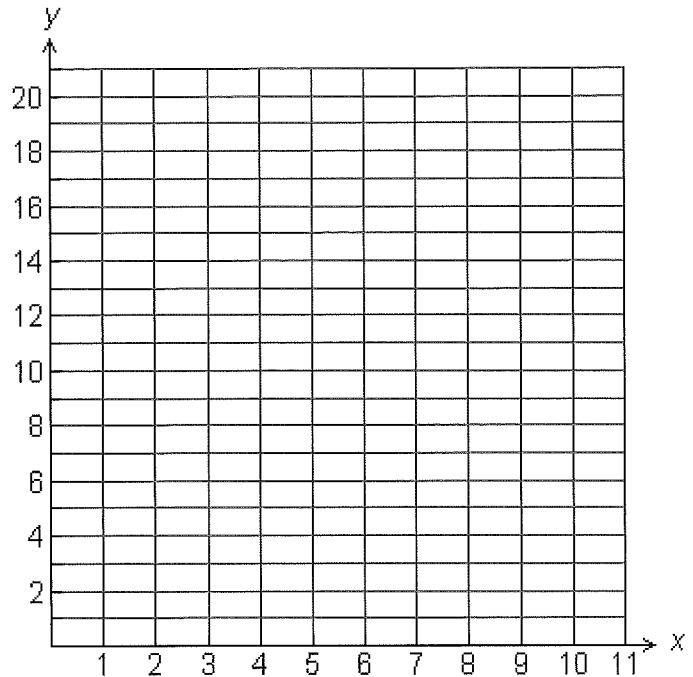


CDs and Downloads

Vi recorded in the table below the number of CDs and the number of song downloads each of her friends purchased last year.

CDs and Downloads

CDs	Downloads
10	2
2	14
9	1
4	6
7	5
2	7
9	4



- Use the graph to display Vi's data in a scatterplot. Label the graph.
- Based on the information in the scatterplot, approximately how many songs would you expect someone to download if he or she purchased 20 CDs?
- Based on the information in the scatterplot, approximately how many CDs would you expect someone to purchase if he or she downloaded 5 songs?

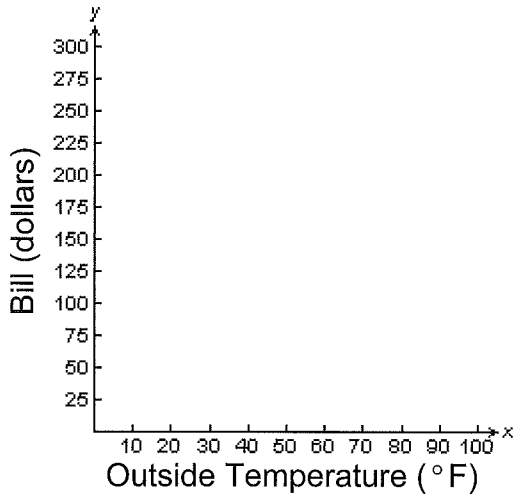


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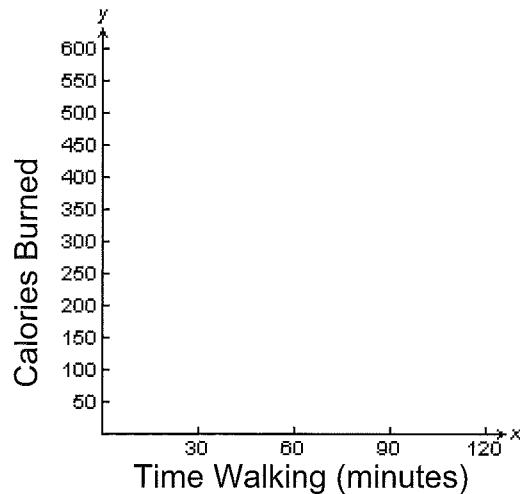
Scatterplot Match

- Match the scatterplot with the situation and attach the cards to the graph.
- Justify your choice and write a statement that describes the relationship.

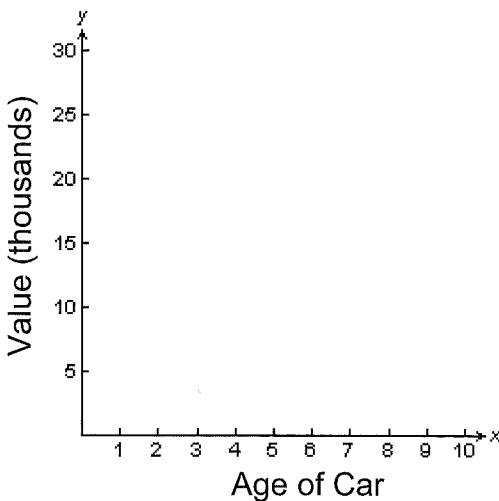
1 Cooling Bill



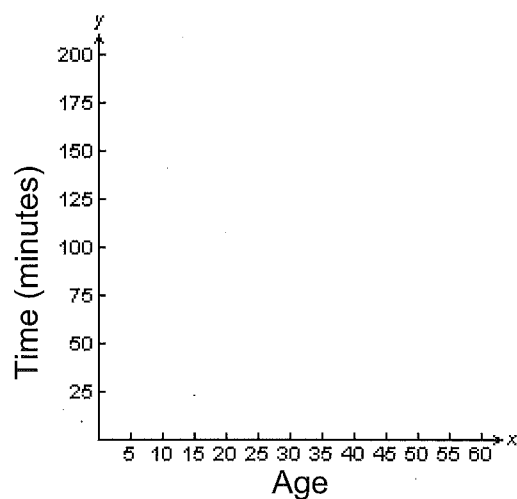
2 Calories Burned Walking



3 Resale Value



4 Television Watching

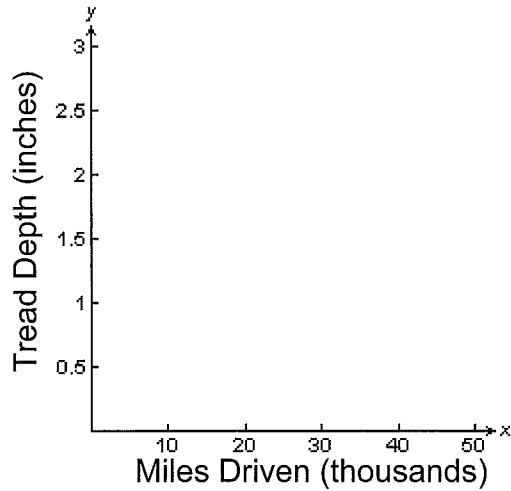




Scatterplot Match

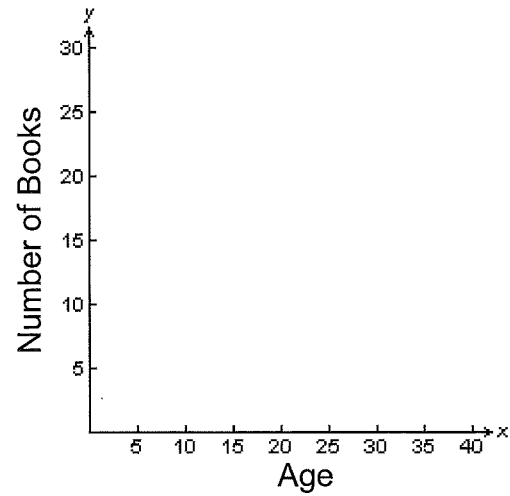
5

Tractor Tire Tread



6

Books Read Annually



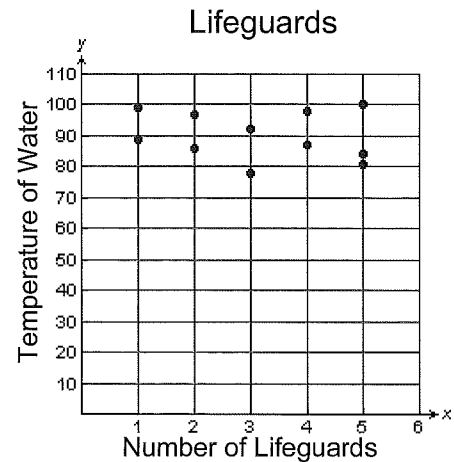
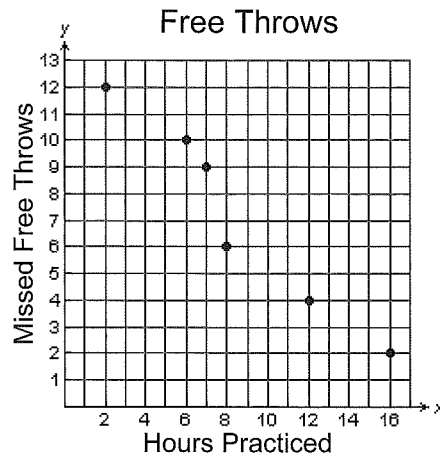
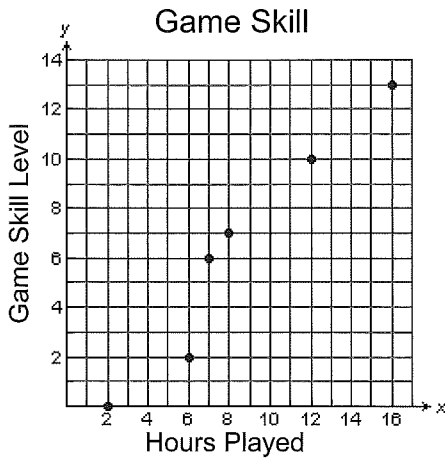


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Independent Practice

A scatterplot is used to analyze 2 sets of data to determine how closely they are related. The relationship could show a positive trend, a negative trend, or no trend.

Each type of relationship is illustrated below:



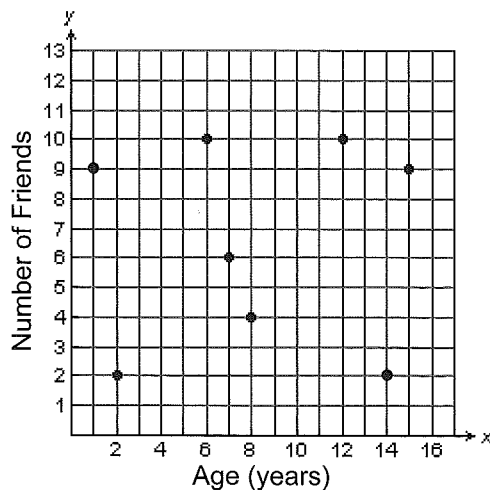
A **positive trend** shows a relationship in which the y-values increase as the x-values increase.

A **negative trend** shows a relationship in which the y-values decrease as the x-values increase.

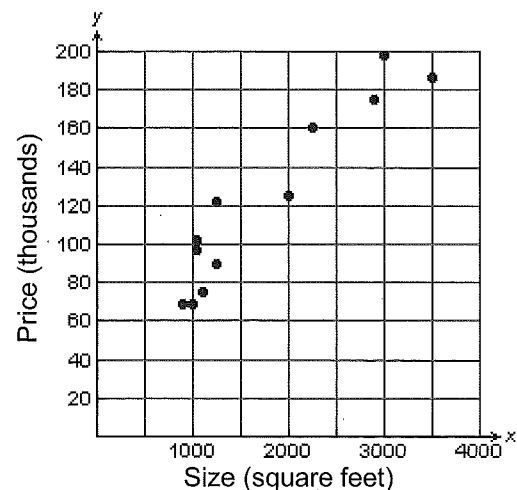
No trend shows a relationship is NOT found between the y-values and the x-values.

Determine the trend that best describes the relationship illustrated in each scatterplot.

1 Friendships

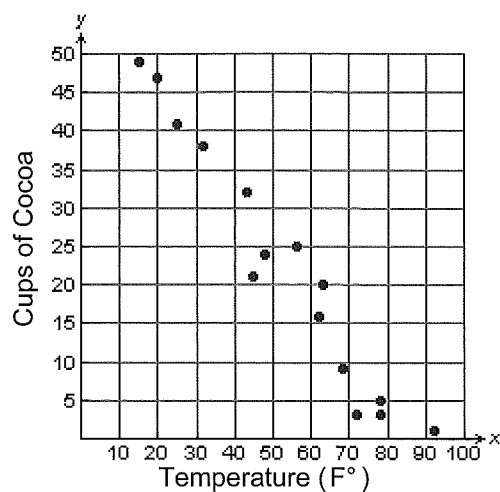


2 New Homes

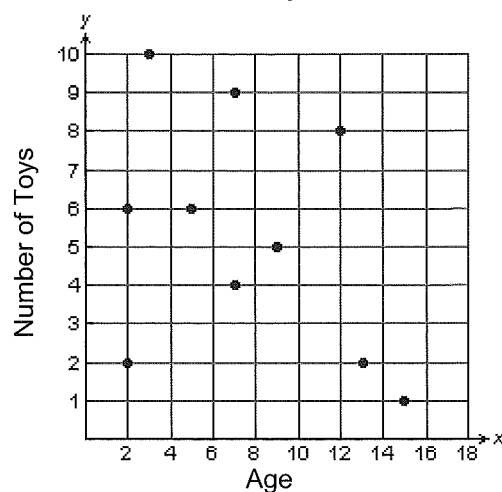




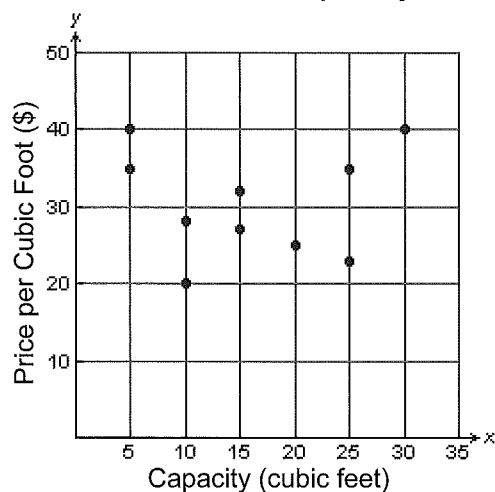
3 Coffee Joe's Cocoa Sales



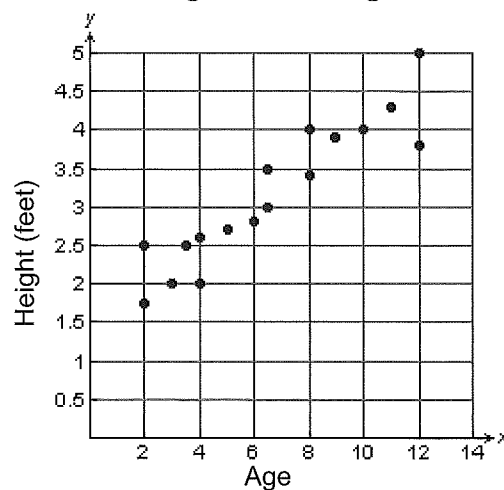
4 Toys



5 Ice Box Capacity

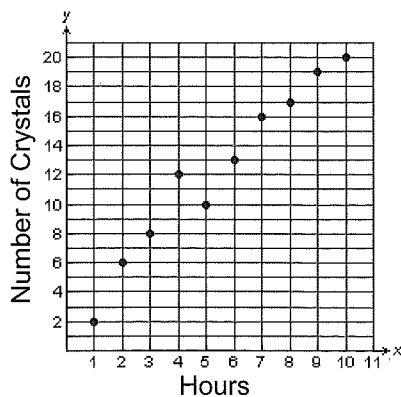


6 Age and Height

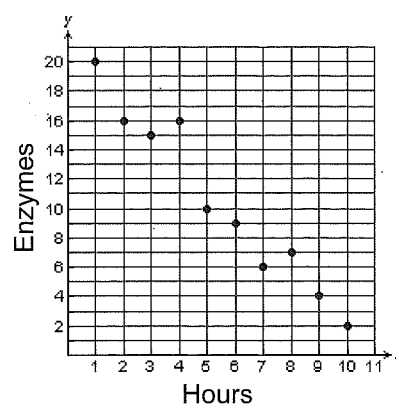


Based on the information in each scatterplot, write a statement that describes the relationship.

7 Crystal Development



8 Decomposition



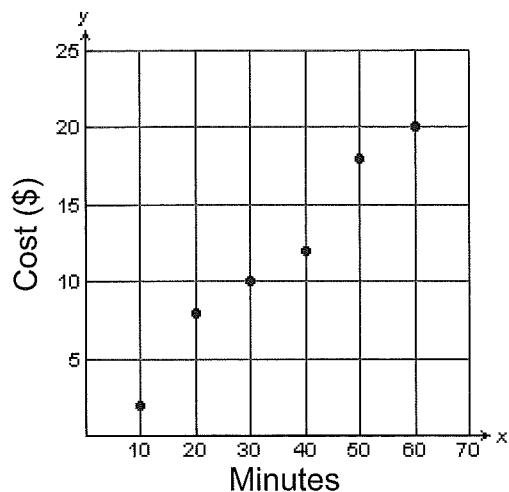


Unit 10 Lesson 2

The scatterplots below represent the relationship between the number of minutes used and the total cost for 2 different phone plans.

Based on the information in each scatterplot, which 2 statements best describes each relationship shown?

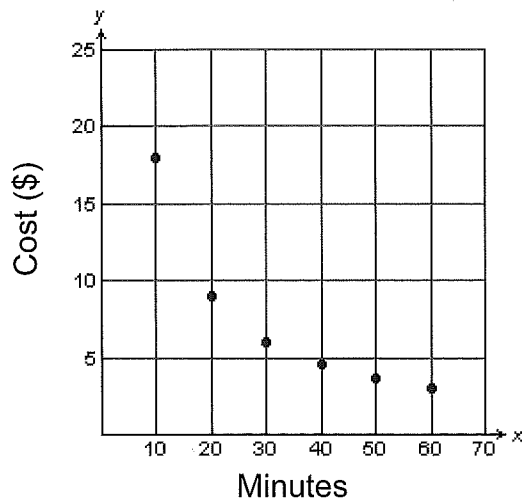
9 Minutes to Cost of Plan A



Statement Choices

- A As the number of minutes increase, the cost decreases.
- B As the number of minutes decrease, the cost decreases.
- C As the number of minutes increase, the cost increases.
- D As the number of minutes decrease, the cost increases.

10 Minutes to Cost of Plan B

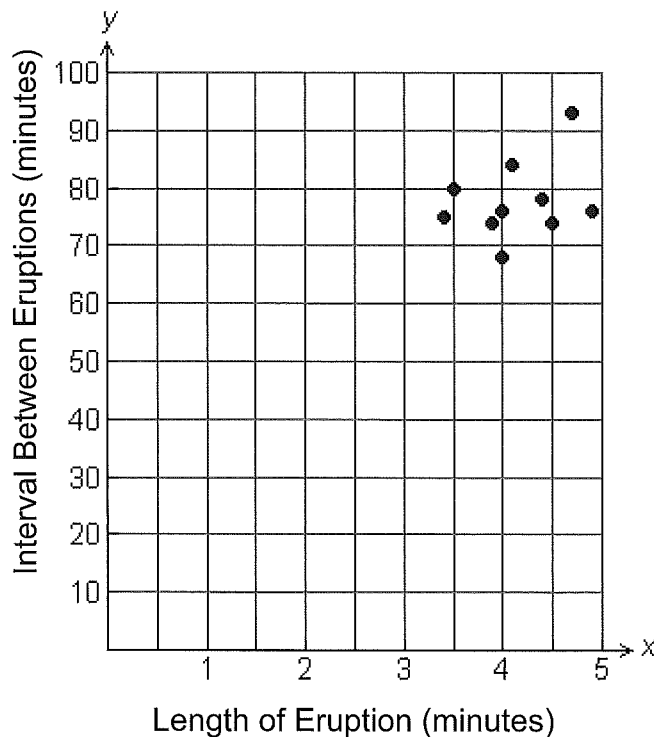




Old Faithful

Beth recorded the length of each eruption and the interval between eruptions in minutes of Old Faithful between 8:00 A.M. and 7:30 P.M.. Dennis recorded the information between 7:30 P.M. and 8:00 A.M.. The park ranger claimed that if an eruption lasted 3 minutes, the next eruption would occur approximately 60 minutes later. Is the park ranger correct? Justify your answer.

Beth's Data



Dennis's Data

Length of Eruption (minutes)	Interval Between Eruptions (minutes)
2.3	50
1.7	55
1.7	58
1.7	56
3.1	57
1.8	42
1.8	51
3.2	79
1.9	53
2	51

FOR TEACHER USE ONLY:

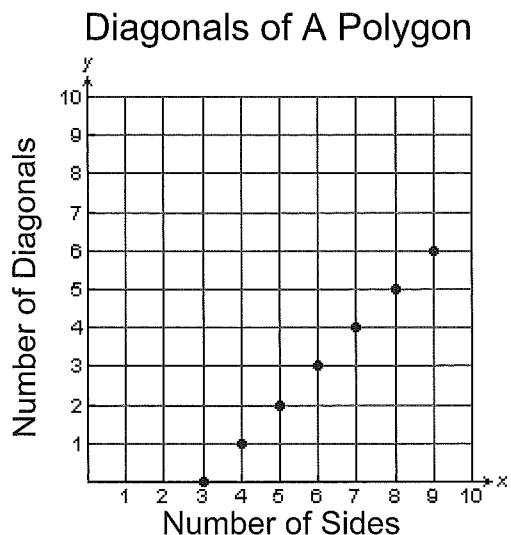
a. YES NO Student arrives at a correct solution?

	4	3	2	1
b. Conceptual Knowledge				
c. Procedural Knowledge				
d. Communication				



Unit 10 Lesson 2

- 1 The scatterplot below represents the relationship between the number of sides and the number of diagonals from 1 vertex of any regular polygon.

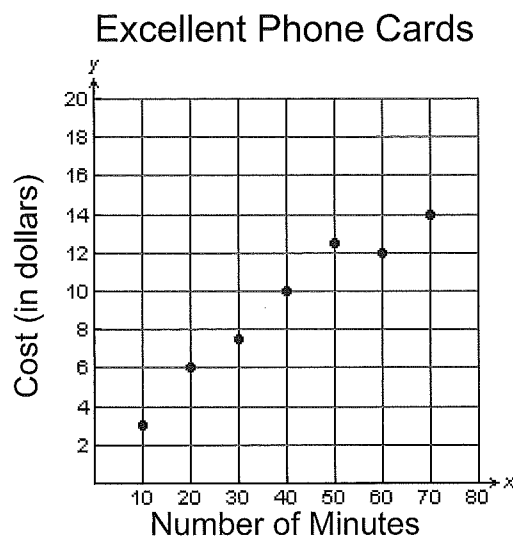


Which of the following is valid conclusion based on this scatterplot?

- A As the number of sides increases, the number of diagonals decreases.
- B As the number of sides decreases, the number of diagonals increases.
- C As the number of diagonals increases, the number of sides increases.
- D As the number of diagonals decreases, the number of sides increases.



- 2 Excellent Phone Service is promoting a new calling card. The scatterplot below shows the cost of a phone card in relationship to the number of minutes on the card.



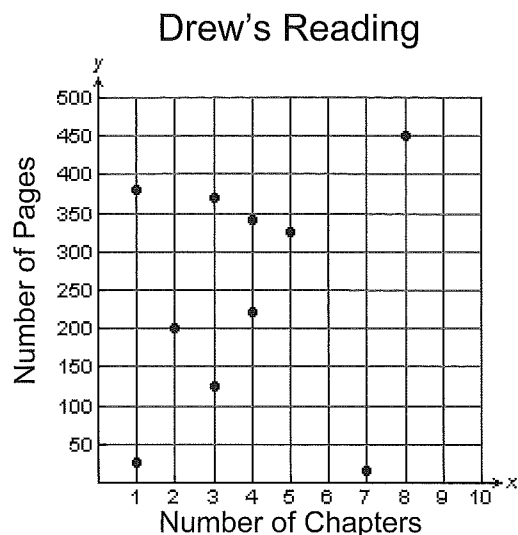
How much would you expect to pay for a 100-minute phone card?

- A \$10
- B \$14
- C \$15
- D \$22



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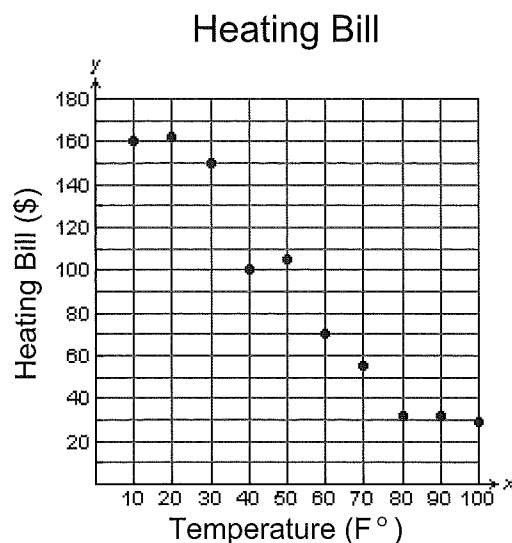
- 3 The scatterplot below represents the relationship between the number of chapters and the number of pages in the 10 books Drew read last summer.



Which description best represents the relationship of the number of chapters to the number of pages?

- A Negative trend
- B Positive trend
- C No trend
- D Cannot be determined

- 4 The scatterplot below represents the relationship between the temperature outside and the heating bill.



Which description best represents the relationship of the temperature outside to the amount of the heating bill?

- A Negative trend
- B Positive trend
- C No trend
- D Cannot be determined